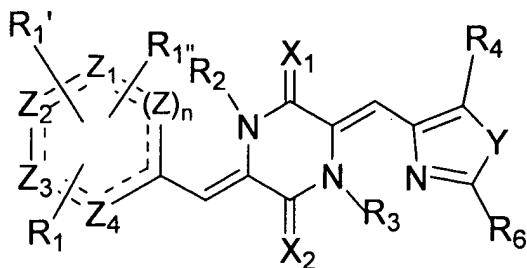


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## AMENDMENTS TO THE CLAIMS

1-14. (CANCELED)

15. (CURRENTLY AMENDED) A compound having the structure of Formula (I):



(I)

wherein

$R_1$ ,  $R_4$ , and  $R_6$ , are each separately selected from the group consisting of a hydrogen atom, a halogen atom, hydroxy, and cyano, and or separately selected from the group consisting of saturated  $C_1$ - $C_{24}$  alkyl, unsaturated  $C_1$ - $C_{24}$  alkenyl, cycloalkyl, cycloalkenyl, alkoxy, cycloalkoxy, aryl, substituted aryl, heteroaryl, substituted heteroaryl, amino, substituted amino, nitro, azido, substituted nitro, phenyl, and substituted phenyl groups, hydroxy, carboxy,  $-CO-O-R_7$ , cyano, alkylthio, halogenated alkyl including polyhalogenated alkyl, halogenated carbonyl, and carbonyl  $-CCO-R_7$ , each optionally substituted with one or more of alkoxy, cycloalkyl, cycloalkenyl, acyl, aclyamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy, carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro,  $--SO$ -alkyl,  $--SO$ -aryl,  $--SO$ -heteroaryl,  $--SO_2$ -alkyl,  $--SO_2$ -aryl, and  $--SO_2$ -heteroaryl;

wherein  $R_7$  is selected from a hydrogen atom or, a halogen atom, and/or selected from the group consisting of saturated  $C_1$ - $C_{24}$  alkyl, unsaturated  $C_1$ - $C_{24}$  alkenyl, cycloalkyl, cycloalkenyl, alkoxy, cycloalkoxy, aryl, substituted aryl, heteroaryl, substituted heteroaryl, amino, substituted amino, nitro, azido, and substituted nitro, phenyl groups, and substituted phenyl groups each optionally substituted with one or more of

alkoxy, cycloalkyl, cycloalkenyl, acyl, aclyamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy, carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro, --SO-alkyl, --SO-aryl, --SO-heteroaryl, --SO<sub>2</sub>-alkyl, --SO<sub>2</sub>-aryl, and --SO<sub>2</sub>-heteroaryl;

R<sub>4</sub> is a tert-butyl group;

R<sub>1</sub>' and R<sub>1</sub>'' are each independently selected from the group consisting of a hydrogen atom, a halogen atom, hydroxy, and cyano, and or independently selected from the group consisting of saturated C<sub>1</sub>-C<sub>24</sub> alkyl, unsaturated C<sub>1</sub>-C<sub>24</sub> alkenyl, cycloalkyl, cycloalkenyl, alkoxy, cycloalkoxy, aryl, substituted aryl, heteroaryl, substituted heteroaryl, amino, substituted amino, nitro, azido, substituted nitro, phenyl, and substituted phenyl groups, hydroxy, carboxy, -CO-O-R<sub>7</sub>, cyano, alkylthio, halogenated alkyl including polyhalogenated alkyl, halogenated carbonyl, and carbonyl-CCO-R<sub>7</sub>, each optionally substituted with one or more of alkoxy, cycloalkyl, cycloalkenyl, acyl, aclyamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy, carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro, --SO-alkyl, --SO-aryl, --SO-heteroaryl, --SO<sub>2</sub>-alkyl, --SO<sub>2</sub>-aryl, and --SO<sub>2</sub>-heteroaryl;

wherein R<sub>7</sub> is selected from a hydrogen atom, a halogen atom, and saturated C<sub>1</sub>-C<sub>24</sub> alkyl, unsaturated C<sub>1</sub>-C<sub>24</sub> alkenyl, cycloalkyl, cycloalkenyl, alkoxy, cycloalkoxy, aryl, substituted aryl, heteroaryl, substituted heteroaryl, amino, substituted amino, nitro, azido, substituted nitro, phenyl, and substituted phenyl groups;

R, R<sub>1</sub>' and R<sub>1</sub>'' are either covalently bound to one another or are not covalently bound to one another;

R<sub>2</sub>, R<sub>3</sub>, and R<sub>5</sub> are each separately selected from the group consisting of a hydrogen atom, or a halogen atom, and or separately selected from the group consisting of saturated C<sub>1</sub>-C<sub>12</sub> alkyl, unsaturated C<sub>1</sub>-C<sub>12</sub> alkenyl, acyl, cycloalkyl, alkoxy, cycloalkoxy, aryl, substituted aryl, heteroaryl, substituted heteroaryl, amino, substituted amino, nitro, and substituted nitro groups, and sulfonyl and substituted sulfonyl groups, each optionally substituted with one or more of alkoxy, cycloalkyl, cycloalkenyl, acyl, aclyamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy,

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carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro, --SO-alkyl, --SO-aryl, --SO-heteroaryl, --SO<sub>2</sub>-alkyl, --SO<sub>2</sub>-aryl, and --SO<sub>2</sub>-heteroaryl;

X<sub>1</sub> and X<sub>2</sub> are separately selected from the group consisting of an oxygen atom, a nitrogen atom, and a sulfur atom, each either unsubstituted or substituted with a R<sub>5</sub> group, as defined above;

Y is selected from the group consisting of a nitrogen atom substituted with R<sub>5</sub>, an oxygen atom, a sulfur atom, an oxidized sulfur atom, and a methylene group substituted with one or more R<sub>5</sub>;

n is an integer equal to zero, one or two;

Z, for each separate n, if non-zero, and Z<sub>1</sub>, Z<sub>2</sub>, Z<sub>3</sub> and Z<sub>4</sub> are each separately selected from a carbon atom, a sulfur atom, a nitrogen atom or an oxygen atom; and

the dashed bonds may be either single or double bonds. [[;]]

~~with the proviso that, in a particular compound, if R<sub>1</sub>, R<sub>1</sub>', R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub> and R<sub>5</sub> are each a hydrogen atom, then it is not true that: 1) X<sub>1</sub> and X<sub>2</sub> are each an oxygen atom and 2) R<sub>4</sub> is either 3,3-dimethylpropyl 1-ene or a hydrogen atom.~~

16. (ORIGINAL) The compound of claim 15, wherein each of R<sub>2</sub>, R<sub>3</sub>, R<sub>5</sub> and R<sub>6</sub> is a hydrogen atom.

17. (ORIGINAL) The compound of claim 15, wherein each of X<sub>1</sub> and X<sub>2</sub> is an oxygen atom.

18. (CANCELED)

19. (CANCELED)

20. (CURRENTLY AMENDED) The compound of to claim 15, wherein R<sub>1</sub> is a substituted phenyl group substituted with one or more of alkoxy, cycloalkyl, cycloalkenyl, acyl, aclyamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy, carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro, --SO-alkyl, --SO-aryl, --SO-heteroaryl, --SO<sub>2</sub>-alkyl, --SO<sub>2</sub>-aryl, and --SO<sub>2</sub>-heteroaryl.

21. (ORIGINAL) The compound of claim 20, wherein the substituted phenyl group is methoxybenzene.

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22. (ORIGINAL) The compound according to claim 15, wherein n is equal to zero or one.

23. (ORIGINAL) The compound according to claim 15, wherein n is equal to one.

24. (ORIGINAL) The compound according to claim 15, wherein n is equal to one and Z, Z<sub>1</sub>, Z<sub>2</sub>, Z<sub>3</sub> and Z<sub>4</sub> are each a carbon atom.

25. (CURRENTLY AMENDED) The compound of Claim 15, wherein said compound is selected from the group consisting of: KPU-2, KPU-11, KPU-35, KPU-66, KPU-80, KPU-81, and KPU-90 and t-butyl phenylahistin.

26-40. (CANCELLED)